

## Freeform Search

<b>Database:</b>	<div style="border: 1px solid black; padding: 2px;">         US Pre-Grant Publication Full-Text Database          US Patents Full-Text Database          US OCR Full-Text Database          EPO Abstracts Database          JPO Abstracts Database          Derwent World Patents Index          IBM Technical Disclosure Bulletins       </div>
<b>Term:</b>	<div style="border: 1px solid black; padding: 2px;">         (glass ceramic) and (thermal image or thermal display)       </div>
<b>Display:</b>	<div style="border: 1px solid black; padding: 2px;">         10 Documents in <b>Display Format:</b> <span style="border: 1px solid black; padding: 0 5px;">-</span> <b>Starting with Number</b> <span style="border: 1px solid black; padding: 0 5px;">1</span> </div>
<b>Generate:</b> <input type="radio"/> Hit List <input checked="" type="radio"/> Hit Count <input type="radio"/> Side by Side <input type="radio"/> Image	

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### Search History

**DATE:** Tuesday, June 07, 2005    [Printable Copy](#)    [Create Case](#)

<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L54</u>	(glass ceramic) and (thermal image or thermal display)	60	<u>L54</u>
<u>L53</u>	(glass ceramic) same (thermal image)	0	<u>L53</u>
<u>L52</u>	L51 and (temperature or thermal or opacity or opaque)	59	<u>L52</u>
<u>L51</u>	(glass ceramic) same (different color)	74	<u>L51</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB; PLUR=YES; OP=ADJ</i>			
<u>L50</u>	L49 and (glass ceramic)	37	<u>L50</u>
<u>L49</u>	(374/101,102,103,104,106,112,110,161,162,159,208;116/200,206)![CCLS]	5212	<u>L49</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L48</u>	glass ceramic array	4	<u>L48</u>
<u>L47</u>	L46 and (temperature or thermal or opacity or opaque)	169	<u>L47</u>
<u>L46</u>	(glass ceramic) same (different composition)	182	<u>L46</u>
<u>L45</u>	L44 and (thermal or temperature)	3	<u>L45</u>
<u>L44</u>	plural\$3 glass ceramic substrates	3	<u>L44</u>
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
<u>L43</u>	3802892.pn.	1	<u>L43</u>

<u>L42</u>	3912525.pn.	1	<u>L42</u>
<u>L41</u>	3816172.pn.	1	<u>L41</u>
<i>DB=USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<u>L40</u>	61017439	1	<u>L40</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L39</u>	L5 same (temperature indicat\$4 or thermal sensor or thermal history or time temperature)	21	<u>L39</u>
<u>L38</u>	L5 and (temperature or thermal sensor or thermal history or time temperature)	913	<u>L38</u>
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
<u>L37</u>	3237448.pn.	1	<u>L37</u>
<u>L36</u>	5975758.pn.	1	<u>L36</u>
<u>L35</u>	35975758.pn.	0	<u>L35</u>
<u>L34</u>	3950985.pn.	1	<u>L34</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L33</u>	glass ceramic sensor	12	<u>L33</u>
<u>L32</u>	glass ceramic indicator	0	<u>L32</u>
<u>L31</u>	thermal glass ceramic	3	<u>L31</u>
<u>L30</u>	temperature responsive glass ceramic	0	<u>L30</u>
<u>L29</u>	temperature glass ceramic	563	<u>L29</u>
<u>L28</u>	temperature sensi\$4 glass ceramic	0	<u>L28</u>
<u>L27</u>	glass ceramic display	13	<u>L27</u>
<u>L26</u>	glass ceramic displayL25	0	<u>L26</u>
<u>L25</u>	(cumulative thermal exposure) and (glass ceramic)	0	<u>L25</u>
<u>L24</u>	(thermal display) and (glass ceramic)	6	<u>L24</u>
<u>L23</u>	irreversible thermal display	0	<u>L23</u>
<u>L22</u>	irrecersible thermal display	0	<u>L22</u>
<u>L21</u>	(irreversible thermal display) and (fisrt substrate or second substrate)	0	<u>L21</u>
<u>L20</u>	(irreversible thermal display) and (glass ceramic)	0	<u>L20</u>
<u>L19</u>	L17 and (second substrate or first substrate)	9	<u>L19</u>
<u>L18</u>	L17 and (ceramic substrate or substrate)	173	<u>L18</u>
<u>L17</u>	374/162	526	<u>L17</u>
<u>L16</u>	L15 and (ceramic substrate or substrate)	236	<u>L16</u>
<u>L15</u>	374/161	763	<u>L15</u>
<u>L14</u>	L13 and (opaque or opacity)	39	<u>L14</u>
<u>L13</u>	374/102	409	<u>L13</u>
<u>L12</u>	374/\$.ccls.	28644	<u>L12</u>
<u>L11</u>	L10 and "substrate"	43	<u>L11</u>
<u>L10</u>	L9 and (thermal history or time temperature)	88	<u>L10</u>
<u>L9</u>	lithium aluminum silicate or Ceran-83	643	<u>L9</u>
<u>L8</u>	glass ceramic history or glass ceramic time	5	<u>L8</u>
<u>L7</u>	glass ceramic sensor	12	<u>L7</u>

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Queries 32366 through 32415.

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S #	Updt	Database	Query
<u>S32415</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	(glass ceramic) and (thermal image or th
<u>S32414</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	(glass ceramic) same (thermal image)
<u>S32413</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	(glass ceramic) same (different color) an or opacity or opaque)
<u>S32412</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	(glass ceramic) same (different color)
<u>S32411</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB	(374/101,102,103,104,106,112,110,161, [CCLS] and (glass ceramic)
<u>S32410</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB	(374/101,102,103,104,106,112,110,161, [CCLS]
<u>S32409</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	glass ceramic array
<u>S32408</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	(glass ceramic) same (different composit thermal or opacity or opaque)
<u>S32407</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	(glass ceramic) same (different composit
<u>S32406</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	plural\$3 glass ceramic substrates and (th
<u>S32405</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	plural\$3 glass ceramic substrates
<u>S32404</u>	<u>U</u>	USPT	3802892.pn.

<u>S32403</u>	<u>U</u>	USPT	3912525.pn.
<u>S32402</u>	<u>U</u>	USPT	3816172.pn.
<u>S32401</u>	<u>U</u>	USPT,USOC,EPAB,JPAB,DWPI	61017439
<u>S32400</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	glass ceramic composition same (temper sensor or thermal history or time temper
<u>S32399</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	glass ceramic composition and (temperat thermal history or time temperature)
<u>S32398</u>	<u>U</u>	USPT	3237448.pn.
<u>S32397</u>	<u>U</u>	USPT	5975758.pn.
<u>S32396</u>	<u>U</u>	USPT	35975758.pn.
<u>S32395</u>	<u>U</u>	USPT	3950985.pn.
<u>S32394</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	glass ceramic sensor
<u>S32393</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	glass ceramic indicator
<u>S32392</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	thermal glass ceramic
<u>S32391</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	temperature responsive glass ceramic
<u>S32390</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	temperature glass ceramic
<u>S32389</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	temperature sensi\$4 glass ceramic
<u>S32388</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	glass ceramic display

- S32387 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD glass ceramic displayL25
- S32386 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD (cumulative thermal exposure) and (glas
- S32385 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD (thermal display) and (glass ceramic)
- S32384 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD irreversible thermal display
- S32383 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD irrecersible thermal display
- S32382 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD (irreversible thermal display) and (firts s  
substrate)
- S32381 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD (irreversible thermal display) and (glass
- S32380 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD 374/162 and (second substrate or first su
- S32379 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD 374/162 and (ceramic substrate or substr
- S32378 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD 374/162
- S32377 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD 374/161 and (ceramic substrate or substr
- S32376 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD 374/161
- S32375 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD 374/102 and (opaque or opacity)
- S32374 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD 374/102
- S32373 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD 374/\$.ccls.
- S32372 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD lithium aluminum silicate or Ceran-83 ar

temperature) and "substrate"

S32371 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBDlithium aluminum silicate or Ceran-83 ar  
temperature)

S32370 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBDlithium aluminum silicate or Ceran-83

S32369 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBDglass ceramic history or glass ceramic tir

S32368 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBDglass ceramic sensor

S32367 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBDglass ceramic composition and (thermal l

S32366 U PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBDglass ceramic composition

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U, Ag, or Sn (IV) oxide 0-39.

USE/ADVANTAGE - In mfr. of a thermal sensor. Resistivity and resistance/temp. characteristics can be accurately controlled and differential sensors in close tolerance matched form may be produced.

CHOSEN-DRAWING: Dwg.4/15

TITLE- TERMS: THERMAL SENSE GLASS CERAMIC COMPOSITION CONTAIN TRANSITION METAL  
OXIDE ALKALI ALKALINE EARTH OXIDE GLASS FORMING OXIDE MODIFIED OXIDE

DERWENT-CLASS: L01 L03 S03 V01

CPI-CODES: L01-A08; L01-K; L03-B01A;

EPI-CODES: S03-B01F; V01-A02A;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1985-050880

Non-CPI Secondary Accession Numbers: N1985-088581

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L39: Entry 9 of 21

File: DWPI

May 15, 1985

DERWENT-ACC-NO: 1985-117731

DERWENT-WEEK: 198520

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TITLE: Thermal sensor glass-ceramic compsn. - contg. transition metal oxide(s),  
alkali and alkaline earth oxide(s), glass forming oxide(s) and modifying oxide(s)

INVENTOR: HOLMES, A

PATENT-ASSIGNEE:

ASSIGNEE

ROMAG HOLDINGS LTD

CODE

ROMAN

PRIORITY-DATA: 1983GB-0027949 (October 19, 1983)

Search Selected

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>EP 141580 A</u>	May 15, 1985	E	042	
<input type="checkbox"/> <u>AU 8434520 A</u>	November 21, 1985		000	
<input type="checkbox"/> <u>JP 61017439 A</u>	January 25, 1986		000	

DESIGNATED-STATES: AT BE CH DE FR GB IT LI LU NL SE

CITED-DOCUMENTS: US 3802892; US 3816172 ; US 3912525

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 141580A	October 17, 1984	1984EP-0307124	
JP 61017439A	October 19, 1984	1984JP-0221118	

INT-CL (IPC): C03C 3/22; C03C 10/00; C03C 15/00; C03C 17/06; C03C 21/00; G01K 7/22;  
G01K 11/00; H01C 7/02

ABSTRACTED-PUB-NO: EP 141580A

BASIC-ABSTRACT:

Ceramic comprises (in wt.%): transition metal oxide(s) pref. Ti(II), Ni, V(V), Zn, Mn(IV) or Fe(III) oxide 5-60; alkaline earth metal oxide(s) pref. Ca, Mg, Ba or Sr oxide 2-33; alkali metal oxide(s) pref. Li, Na, Rb or K oxide 0.7-16; glass-forming oxide(s) pref. P(V), Si, Al or B oxide 3.7-40; and modifying oxide(s) pref. Mn, Zr,